

ABSTRACT OF THE DISCLOSURE

There is provided a wavelength tunable light source 10 in which one end surface 1a of a semiconductor laser 1 is applied 5 anti-reflection film, a lens 6 collimates a light beam emitted from the one end surface 1a of the semiconductor laser 1 onto which the anti-reflection film is applied, and a wavelength selection portion constituted by a combination of a diffraction grating 2 and a mirror 3 selects a light beam having a desired wavelength to return the selected light to the semiconductor laser 1 to make laser oscillation. A center of rotation of the mirror 3 is provided in a position P0 where mode hopping can be suppressed when the wavelength is tuned and rotation of the mirror 3 is driven by a direct drive system by using a motor 15 4 having a rotation shaft 4a in the center of rotation of the mirror 3.